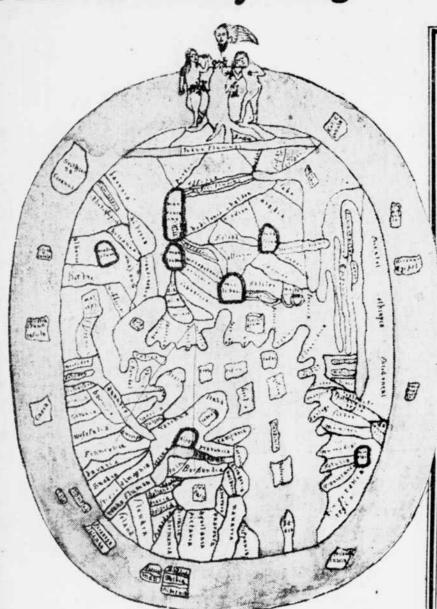
Almost Everything From Trolley Cars to "Drummers" Is Mapped Nowadays



The World as it was thought to be 1000 Years Ago. Observe Adam and Eve at the Top-Courtesy American Geographical Society.

Here Are a Few of the Varieties of Maps Made: Topographical, Commercial, Political, Automobile, Aerial, Marine, Geological, Meteorological, Astronomical, Zoological and Theological.

"No, just a few of the general sorts." "Well, we have topographical, commercial, political, automobile, aerial, marine, geological, meteorological, astronomical, all landmarks and hangars located. Maybe or industrially important parts of the co an would like to know whether a certain try. The smaller scale official British map which I have just had lightships, glaciers.

way C. S. Hammond, the map man, handed New Jersey and Maryland and the rest of out facts about his specialty. The inquirer had naïvely thought that maps were maps. chiefly found in "jographies," railroad that almost everything is mapped to-day. Useful knowledge of all sorts is put on a chart with a suitable key in several colors. The breakfast food manufacturer no what part of the American population is cents. You can send cash or money order are printed on cloth, others are "dissected" to fold up in handy squares for consulta-

have?" asked the curious cus- pent order. To-day we have a notion that there is no more unknown territory. Did not Amundsen in reaching the South Pole touch the last unexplored spot on the surface of the globe? The explorer's occupa

tion is thought to be gone Nevertheless the world is far from being completely and accurately mapped, even in zoological and theological maps. Would you its civilized parts. There are continental like to see a map of the delegates Colonel areas from Brazil to China which are only Roosevelt thought he was going to get? superficially charted. The United States Yes, we made one like that. Here is a map itself is about two-thirds unmapped, alton the York from the standpoint of the though the Geological Survey has been trylaundryman and another in the interests of ing hard to map it since 1882. Of course the baker. If you want to do some cruising we know already our general outlines. The in the waters of the Malay Archipelago, government surveyors, working with the get this chart of the British hydrographic state officials, are getting out a wonder you are thinking of flying in fully detailed picture of the land. It is France this summer, here is the latest map done on three scales, the largest one mile of the country as seen from aeroplane with to the inch, applying to the thickly settled dwelling house in Rhyolite, Nev., is made miles to the inch. On the largest map of wood or brick. For that information I there is about everything you can imagine, would refer you to a special insurance map. even teh little red schoolhouse and each Of course a regular government map shows individual farmhouse on a crossroad. There all the houses in the United States, as far are black dots for houses and symbols for as the territory has been covered, barring other features, such as salt and fresh water towns and cities. If you plan a hunting trip marshes, oil wells, cliffs, quarries, canals, to Central Asia I can supply you with an aqueducts, tunnels, trails, mine dumps, corrected on information furnished by my lines and elevation figures. Each of the missionary correspondents. And here's the large scale maps is about 17 by 16 inches, whole story of the world from the business which means that it covers a territory standpoint in a Chamber of Commerce about 17 by 16 miles in area. The Geolog-An Exact Relief Model of the Panama Canal on a Vertical Scale of Nearly a Mile to the inch ical Survey has now done most of New It was really dazing and disconcerting the | England, three-fourths of New York, all of

are elaborating the government work, notably New Jersey, which is having the time tables and motor guides. It seems sheets done on a larger scale, with such added details as the names of all streets and highways. These remarkable maps are sold by the government in lots of one hundred at three longer pores over figures to keep track of cents apiece and singly at five cents. If his business. At a glance he sees on a map you buy of a private dealer they cost 10

the country scattering. Some of the states

of his own food is sold (red), and how much Survey, Washington. Uncle Sam is sure of his rivals' product (yellow). The states- the biggest and best mapmaker in the counman fighting for a Presidential nomination try. His maps are the basis for all private- A special kind of motor map has photobeholds on a map of the United States his ly published maps of this land, and if he graphic inserts of landmarks on each



freight cars, and manufacturers or jobbers being drawn. The corporation officials have plan Sea, sturgeon; the East Indian archi-

A movable business chart may have a red tack at Chicago and a white tack at This means that the firm's travelling salesman is at Chicago and there is in inquiry from a customer at Oshkosh. down a "helitrope hunk," a "pale green Poformation to the representative at the lack" or a "wine colored Wop." Windy City. Purple tacks show complaints to be referred to the field manager; gold tacks indicate sales. Every salesman has dor, and his progress through the ored silk cord may be used to outline territory assigned, being tacked in place, and Iso to mark travellers' routes. The flam-

all about their current business. The tacks discovered that men who speak the same pelago, hemp, copra, birds' nests, pearls, are changed daily, according to the Weather language work better in company, and they trepang and birds of paradise; Corea, Bureau reports or other information re- want to sort out their prospective employes whales, ginseng and beche de mer (a sea ceived. A weather map of the United so that those who use the same tongue may slug used for soup); the Sahara Desert, States, 78 inches long and mounted on be put to work together. The map is estriches, camels, gum and dates. The ompo board, costs \$8. The tacks are 30 colored on the speech basis. Finding what United States produces so many things that district the job hunters come from, it will the map is rather crowded. be easy to bunch them as blues, yellows, pinks, purples and so on. The loose term of maker. He has about 329 square miles "hunky" will become precise when the color to chart, and a large part of this tercognomen is added, and the foreman will ritory is shown in

> An ice cream company lately ordered a ing taxes, water rates, assessments and arroutes in New York City. This will be These maps are made under direction of done in colors with a brush. A department store calls for a map showing freight and express rates within a radius of fifty The Interstate Commerce Commission and state and federal courts often require special maps, which are entered as city the preliminary mapping is done by man connected with the New York District | President. The first thing is a topographical Attorney's office who makes drawings of sketch showing natural conditions, then a cenes of crime for use in trials.

> everything in stock admits he is stumped the block numbers in blue, the lot numbers when an explorer drops in and asks for a in red, while changes are shown in red or

Father Knickerbocker is he saved a lot of profamity when he calls with each individual lot located. It takes the originals and duplicates used for levystreet system is devised and blocks are laid The map dealer who claims to have out. The lot property lines are in black,



How America Looked to the Artistic but Ill Informed Cartographers Four Centuries Ago - American Geograpiahical Society.

lay by day.

At first sight it seems that map making cognita," invariably occupied with pictur- red and common roads in black, with other

waters. The latter are chiefly reproduc- proportion to the speed of your car; it tions of official foreign charts.

as reached its limit. Look at the charts The government topographical maps, exof the ancients, which were based on the cellent as they are, do not cater to motorory of the flatness of the world and ists by showing the exact qualities of hat there was nothing beyond the Roman roads. The private map publisher gets his start of a trip. It is possible by this means innings largely on automobile maps, which to motor on the darkest night or in dayreautiful maps were done in color on sell for \$1 to \$2 apiece. These show the relium; they included big spaces of "terra best roads in solid red, fair roads in broken

heir national and international operations | Hydrographic Office issues charts of foreign | line, which is your route, unwinds in exact are differentiated in drawing. One of the matches every twist and turn of the road, and continuously gives the distances from the starting point, which coincide with the time through absolutely unknown territory without looking at a 'signpost or a

one of them? Here is a map of the Aero Club of France, "published under the patister of Public Works." It shows a portion of French territory, as seen by a man permanent records of data. flying through the air. There is an elaborate key, and, besides many conventional signs or symbols, there are accurate little pictures of notable landmarks, as cathe- time drals and towers. The principal roads are lesser used thoroughfares in black. Railroads and electric car lines are given. habited localities, industrial works, high rocks, chapels, chateaus, towers, ruins, furnaces, gas tanks, windmills, statues, fortifications, woods, waters, vineyards and farms. There are symbols locating stations the underworld on movable maps. Such of the Aeronautical Society, hydrogen depots, aerodromes, landing fields and hangars. The signs for balloon hangars and aeroplane hangars are both in red, but other political information was shown on a

and of other notable objects. The commercial map, used by business men to keep track of special information,

maps shows a full cut of Rheims Cathedral

Aeronautical maps are a twentieth cen- tersecting each other or running in parformation. The facts on the movable map ronage and with the consent of the Min- are transferred daily to a smaller map, on 1 roduction by comparative cubes, rice and which colored gummed labels are used for It constitutes a valuable record of the ships, money in stacks of coin, all graded

to keep tab on accident and death claims. It is much employed by the city departments, as was seen especially in the budget exhibit, to illustrate all sorts of projects and to convey statistical information. The Police Department uses it. It is said some private detective agencies plot the activievents as safe blowings and train robberies can be handily indicated by the tack sysmap recently ordered by a Roosevelt com-Prohibitionists, liquor men, suffragettes and single taxers have charts made to order.

The industrial labor bureau of an Ameriodometre record. The map is "set" at the has a thousand forms. Silk covered tacks can corporation which uses foreign laborers start of a trip. It is possible by this means in eighty different tints, and likewise narrow colored ribbons, are shifted on maps cial map, showing the language divisions of the United States to inform Wall Street of Southeastern Europe, especially Austriaspeculators of weather and crop conditions, Hungary. It is not to satisfy idle curiosity to tell railroad men of the movement of or a philological penchant that this chart is rugs, meerschaum and aurquoises: the Cas-

chart of the interior of Brazil or a lot of thue lines, which are dated. Dimensions other rarely visited parts of the earth. are given within fractions of an inch. The The manufacturer of maps does the best he oldest used map goes back to about 1805. can to fill in the blank spots, and is al- while there is an ancient volume of 185 ways gathering data from hunters, ex- lying around. The indexing system enables plorers and missionaries. A missionary in one to find any parcel of property in a few Africa lately sent some useful information moments. One of the jobs of the city surabout the interior to a New York publisher. veyor is to act as arbitrater, when it is The missionaries are not only good con- discovered by a new survey that a certain tributors of data, but they are good buyers block contains six inches too much or too of maps. A convenient sized book, in- little, compared with owners' deeds. Somestructing travellers in the field work of times he divides the six inches equitably mapping, is issued by the Royal Geograph- among all the owners. In the downtown ical Society, and is sent out by some New New York district, where property is worth York publishers to their correspondents in | 320 a square foot, a couple of inches frontremote sections.

most extensive and complete. The Eng- of the city only by blocks, and a piece of lish ordnance survey has been at work for real estate is cartographically

commercial standpoint, in an English vol-

dred or so colered charts which convey innumerable facts in a way that would tury novelty. What would the ancient allel rivalry across a dozen states, are fascinate a child as well as instruct a linto court and fight out the case with a hale cartographers have said if they had seen vividity depicted. There may be small labels business man. For example, the world's of ancient deeds and records. This is why on top of the tacks to convey special in- distribution of livestock is shown by various sized pictures of cattle and pigs, sugar coffee production in bags, wine in casks, tobacco in pouches and pipes, coal in Hay do by chart is dated and filed in an index cabinet. freight cars, oil in cil derricks, shipping in every house and building in the Enited business which may be referred to at any in size to correspond with the accompany. States and tell its construction, came to be irg figures. The armies of the world are made was told to the writer by Mr. Buheaded by a big green Cossack, and the chanan, of the Sanford Map Company. lesser figures are in appropriate uniform Fack in 1866 the idea occurred to D. A. Sandown to the small blue United States representative. A quaint chart shows the office at Cincinnati. He thought at first of home and colonial populations of the mapping only the great cities from the inworld's empires, with figures of the white surance point of view. He approached well races, and beside them their brown, yel- known fire underwriters in New York and low or black dependents. The Englishman | Hartford and received little encouragement. ties of their employes and the doings of is seen overshadowed by a giant Hindu, Nevertheless, he had surveys made of while the Frenchman and his black are of several important cities of this state and equal height, and the brown brother of the showed the finished work to officers of in-American reaches halfway above his knee, surance companies. A number of them detem. The alleged robbery of delegates and All the world's chief railways, steamship cided to make use of the plans. The first lines, cables, telegraphs, distances and maps were hand drawn, then the lithogan times of routes, detailed imports and ex- graphic process was employed. The ideamittee from a New York manufacturer. ports, are shown on various maps or in ac- was taken up abroad, for Mr. Sanborn was companying diagrams. The locations of a pioneer. industrial products in each country are To-day there are insurance maps of the given in red or purple type. At a glance United States, Canada, a large part of one sees the districts where France pro- Great Britain and a few places on the Conduces cheese, snails and mathematical in- tinent. All buildings in a territory are struments: Bulgaria, attar of roses, goats shown on a scale of fifty feet to an inch. and salt; Afghanistan, swords; Persia, Brick buildings are red, wooden are yellow, cpium; Arabia, frankincense; Asia Minor,

age amounts to quite a few dollars. The Swirs are highly artistic and the English all deeds and mortgages are filed, has maps merely as being within the boundaries of a The entire world is mapped, from the lot and its owner or occupant is indicated.

The courts have held that the city's costly time of handy size, called Philips's Cham- and detailed maps do not establish ownerher of Commerce Atlas. There are a hun-ship. If your title is contested, you canmaps, as in Australasia, but you must go and elaborately indexed information bear-



usual features, the scale being from one to 4

three miles to the inch. One publisher said

that automobile maps were the only ones

on which he did original work. He sends

out scouts in machines to ascertain the

these may be properly recorded on the

map. The more expensive automobile maps

conditions of the various roads, so that